

L13 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:220327 CAPLUS

DOCUMENT NUMBER: 140:270672

TITLE: Preparation of analogs of discodermolide and

dictyostatin-1 and their therapeutic use as

antiproliferative and microtubule stabilizing agents

INVENTOR(S): Curran, Dennis P.; Shin, Youseung; Choy, Nakyne; Day,

Billy W.; Balachandran, Raghavan; Madiraju, Charitha;

Turner, Tiffany

PATENT ASSIGNEE(S): University of Pittsburgh, USA

SOURCE: PCT Int. Appl., 132 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004022552	A1	20040318	WO 2003-US27793	20030905 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003263090	A1	20040329	AU 2003-263090	20030905 <--
PRIORITY APPLN. INFO.:			US 2002-408503P	P 20020906
			US 2003-437736P	P 20030102
			WO 2003-US27793	W 20030905

OTHER SOURCE(S): CASREACT 140:270672; MARPAT 140:270672

IT 156312-07-1DP, Dictyostatin-1, analog 479673-21-7P

479673-35-3P 674287-58-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

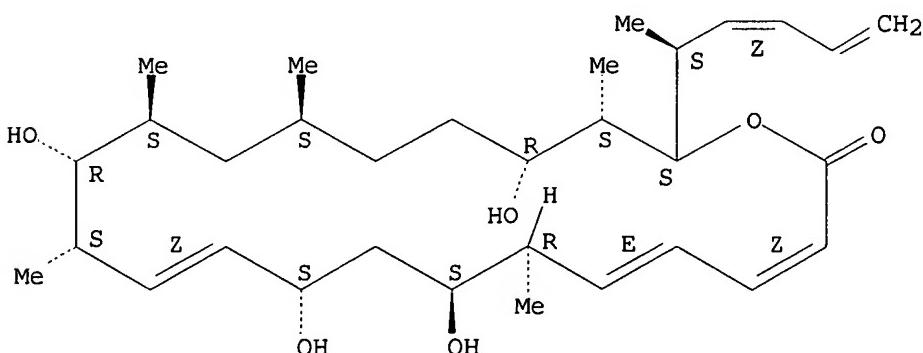
(preparation of analogs of discodermolide and dictyostatin-1 and their use as antiproliferative and microtubule stabilizing agents)

RN 156312-07-1 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Double bond geometry as described by E or Z.

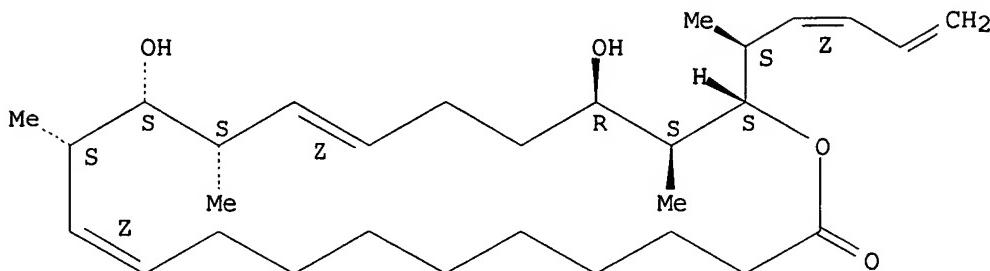


RN 479673-21-7 CAPLUS

CN Oxacyclodocosa-11,16-dien-2-one, 14,20-dihydroxy-13,15,21-trimethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (11Z,13S,14S,15S,16Z,20R,21S,22S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.

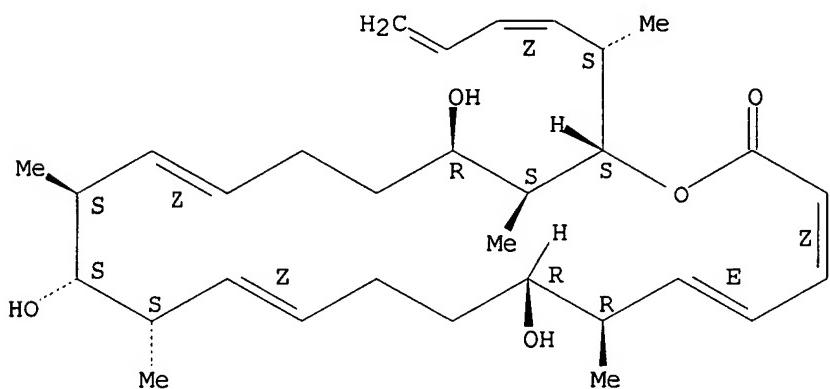


RN 479673-35-3 CAPLUS

CN Oxacyclodocosa-3,5,11,16-tetraen-2-one, 8,14,20-trihydroxy-7,13,15,21-tetramethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8R,11Z,13S,14S,15S,16Z,20R,21S,22S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.

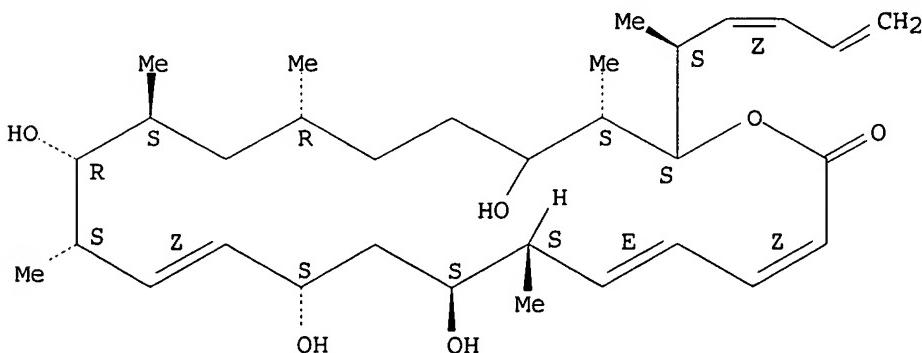


RN 674287-58-2 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7S,8S,10S,11Z,13S,14R,15S,17R,21S,22S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as described by E or Z.



IT 479673-47-7P 479673-57-9P 672296-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

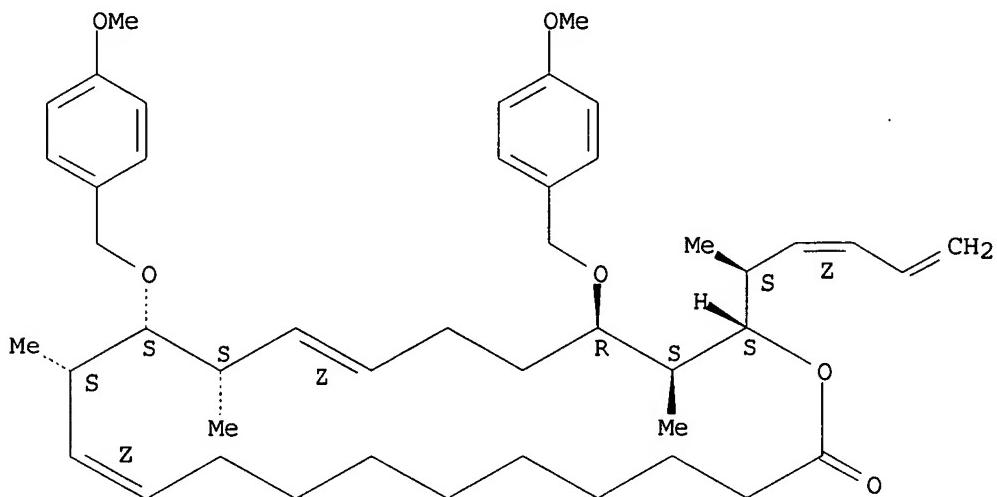
(preparation of analogs of discodermolide and dictyostatin-1 and their use as antiproliferative and microtubule stabilizing agents)

RN 479673-47-7 CAPLUS

CN Oxacyclodocosa-11,16-dien-2-one, 14,20-bis[(4-methoxyphenyl)methoxy]-13,15,21-trimethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.



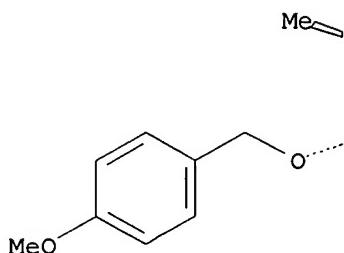
RN 479673-57-9 CAPLUS

CN Oxacyclodocosa-3,5,11,16-tetraen-2-one, 8,14,20-tris[(4-methoxyphenyl)methoxy]-7,13,15,21-tetramethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8R,11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

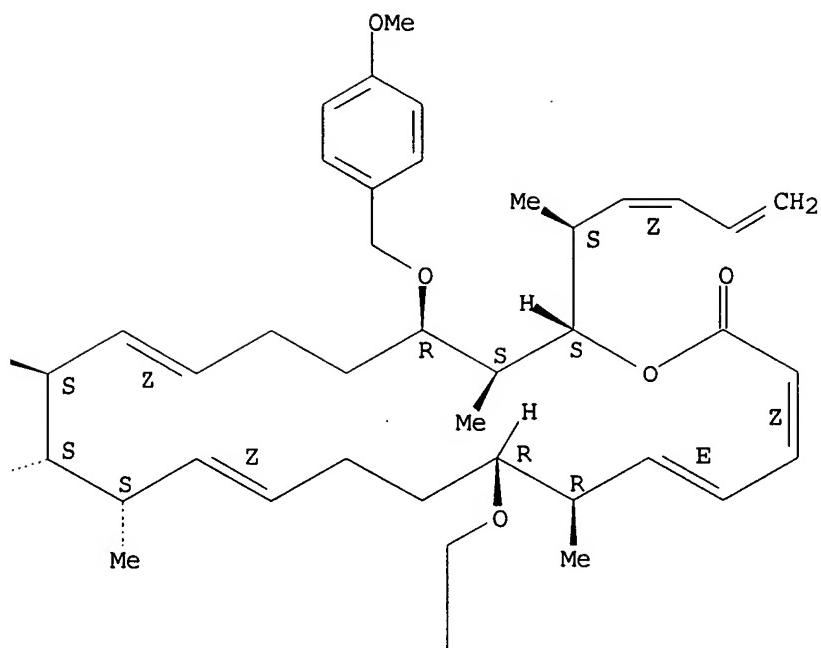
Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.

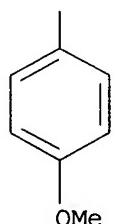
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PAGE 1-B



PAGE 2-B

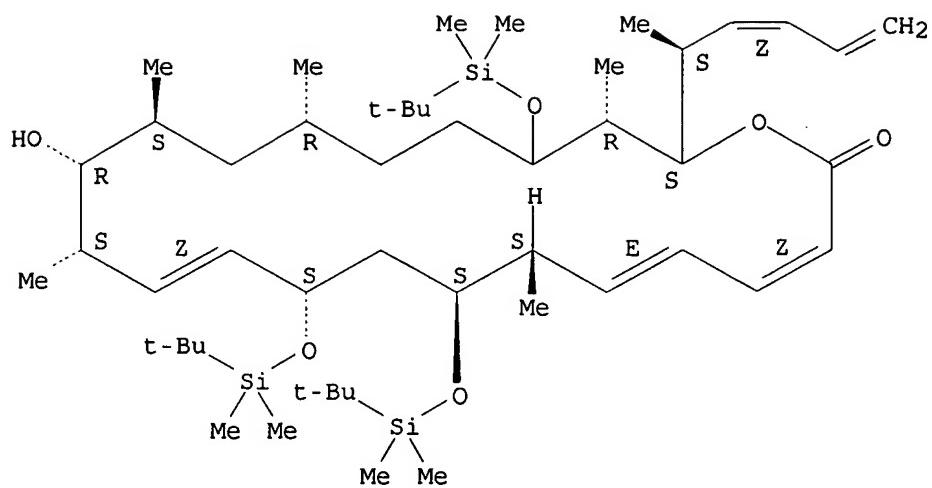


RN 672296-56-9 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,20-tris[[(1,1-dimethylethyl)dimethylsilyl]oxy]-14-hydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7S,8S,10S,11Z,13S,14R,15S,17R,21R,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as described by E or Z.



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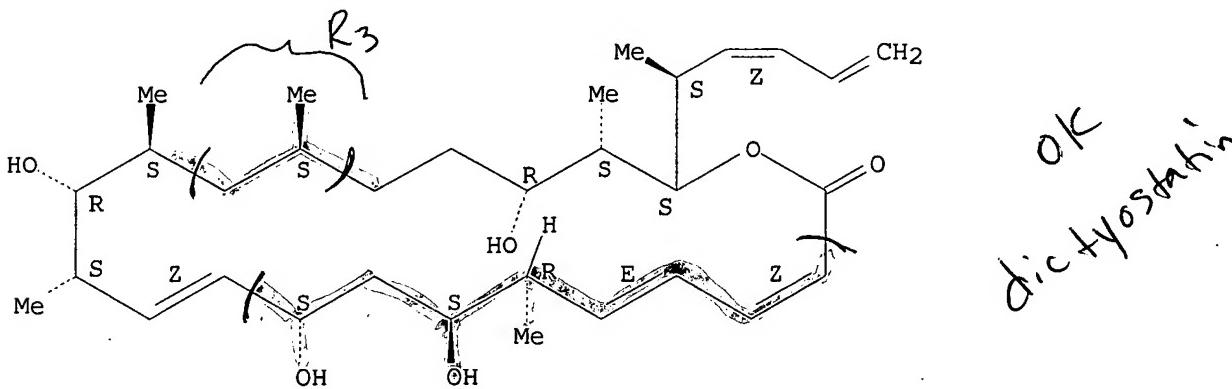
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THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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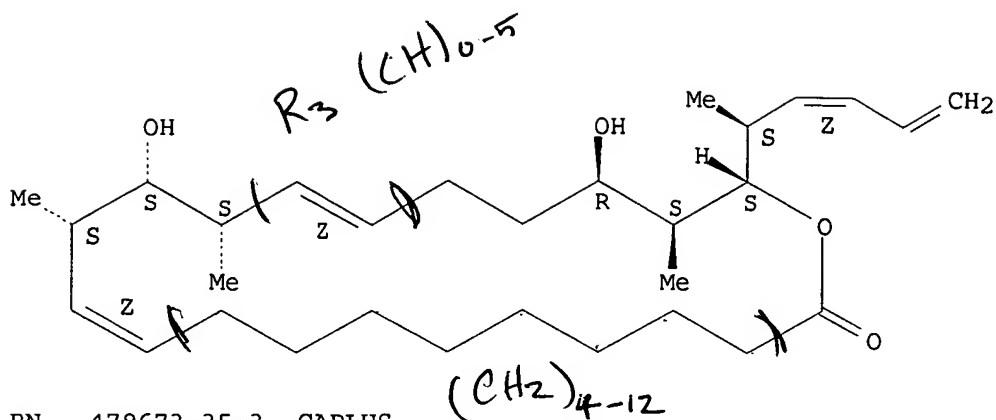
L11 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:870413 CAPLUS
DOCUMENT NUMBER: 138:73122
TITLE: Discodermolide/Dictyostatin Hybrids: Synthesis and Biological Evaluation
AUTHOR(S): Shin, Youseung; Choy, Nakyen; Balachandran, Raghavan; Madiraju, Charitha; Day, Billy W.; Curran, Dennis P.
CORPORATE SOURCE: Department of Chemistry and Department of Pharmaceutical Sciences, University of Pittsburgh, Pittsburgh, PA, 15260, USA
SOURCE: Organic Letters (2002), 4(25), 4443-4446
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:73122
IT 156312-07-1DP, Dictyostatin-1, analogs 479673-21-7P
479673-35-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of discodermolide/dictyostatin hybrids from three asym. fragments and evaluation of their antitumor activity in human cancer cell lines)
RN 156312-07-1 CAPLUS
CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as described by E or Z.



RN 479673-21-7 CAPLUS
CN Oxacyclodocosa-11,16-dien-2-one, 14,20-dihydroxy-13,15,21-trimethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as described by E or Z.

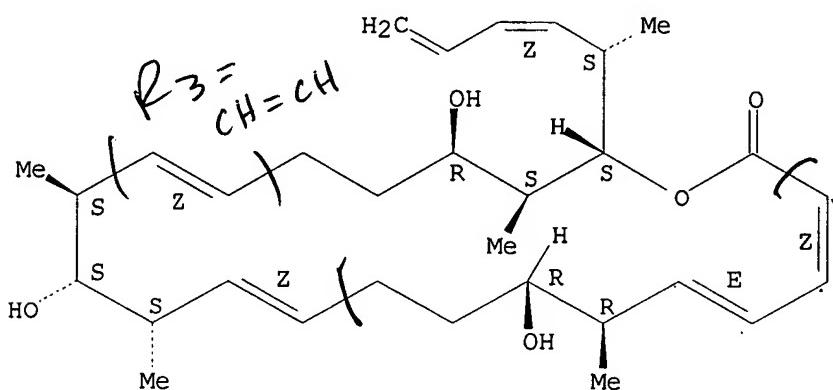


RN 479673-35-3 CAPLUS

CN Oxacyclodocosa-3,5,11,16-tetraen-2-one, 8,14,20-trihydroxy-7,13,15,21-tetramethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8R,11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.



IT 479673-47-7P 479673-57-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

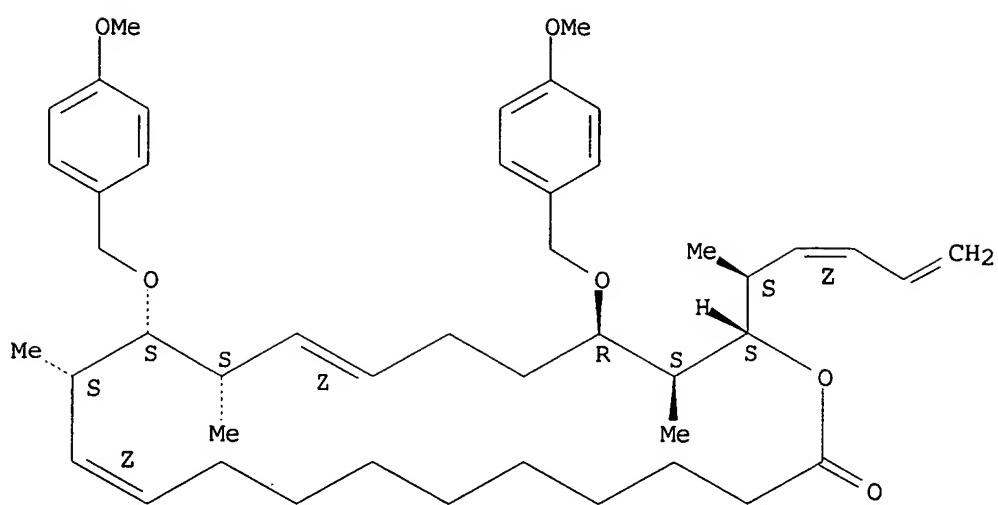
(preparation of discodermolide/dictyostatin hybrids from three asym. fragments and evaluation of their antitumor activity in human cancer cell lines)

RN 479673-47-7 CAPLUS

CN Oxacyclodocosa-11,16-dien-2-one, 14,20-bis[(4-methoxyphenyl)methoxy]-13,15,21-trimethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

Double bond geometry as described by E or Z.

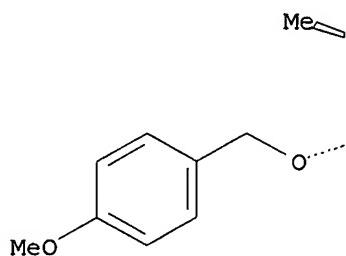


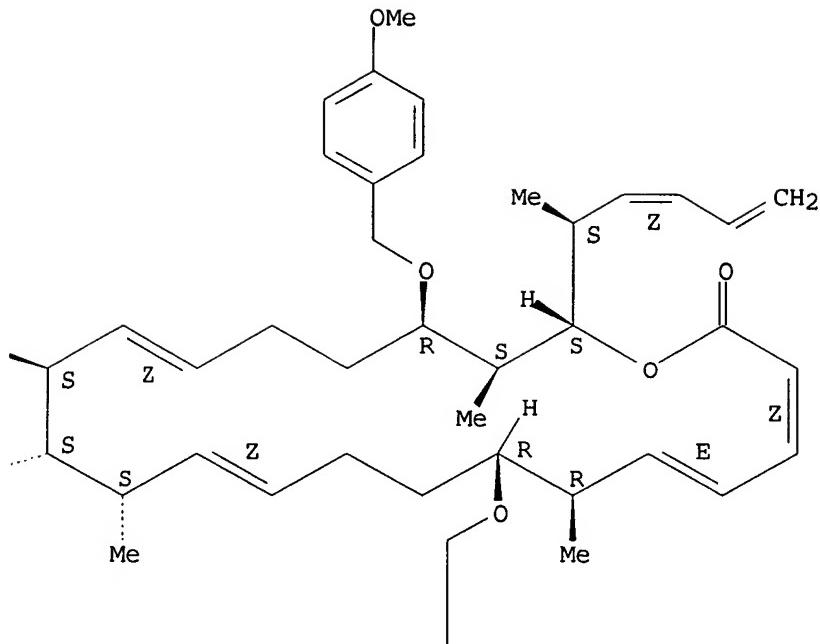
RN 479673-57-9 CAPLUS

CN Oxacyclodocosa-3,5,11,16-tetraen-2-one, 8,14,20-tris[(4-methoxyphenyl)methoxy]-7,13,15,21-tetramethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8R,11Z,13S,14S,15S,16Z,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as described by E or Z.

PAGE 1-A





REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:635882 CAPLUS
 DOCUMENT NUMBER: 135:200474
 TITLE: Dictyostatin compounds for stabilization of microtubules
 INVENTOR(S): Wright, Amy E.; Cummins, Jennifer L.; Pomponi, Shirley A.; Longley, Ross E.; Isbrucker, Richard A.
 PATENT ASSIGNEE(S): Harbor Branch Oceanographic Institution, Inc., USA
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001062239	A2	20010830	WO 2001-US6198	20010226 <--
WO 2001062239	A3	20020124		
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE, TR
 CA 2400896 AA 20010830 CA 2001-2400896 20010226 <--
 US 2001056118 A1 20011227 US 2001-793323 20010226 <--
 US 6576658 B2 20030610 EP 2001-911183 20010226 <--
 EP 1259245 A2 20021127 EP 2001-911183 20010226 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR
 JP 2003523383 T2 20030805 JP 2001-561306 20010226
 US 2003153615 A1 20030814 US 2003-360200 20030206
 US 6677370 B2 20040113
 PRIORITY APPLN. INFO.: US 2000-184617P P 20000224
 US 2001-793323 A3 20010226
 WO 2001-US6198 W 20010226

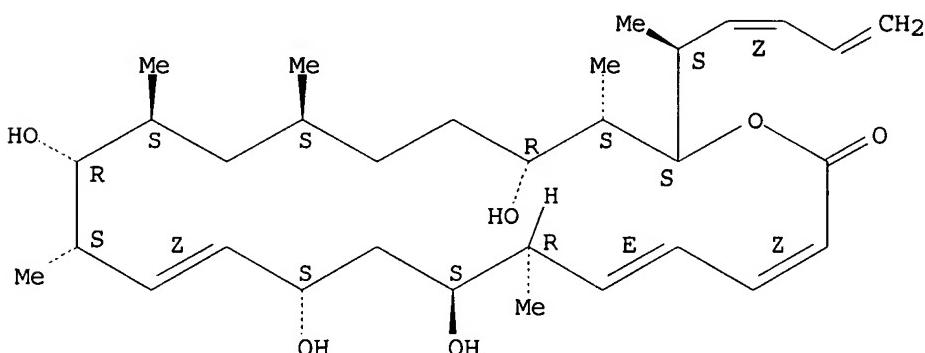
IT 156312-07-1P, dictyostatin 1
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (dictyostatin compds. for stabilization of microtubules)

RN 156312-07-1 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Double bond geometry as described by E or Z.



L11 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:733500 CAPLUS
 DOCUMENT NUMBER: 123:139562
 TITLE: Isolation and structure of dictyostatin 1
 INVENTOR(S): Pettit, George R.; Cichacz, Zbigniew A.
 PATENT ASSIGNEE(S): Arizona State University, USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5430053	A	19950704	US 1994-229658	19940419 <--
CA 2146880	AA	19951020	CA 1995-2146880	19950412 <--
EP 680958	A1	19951108	EP 1995-302510	19950413 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
 PRIORITY APPLN. INFO.: US 1994-229658 A 19940419
 IT 156312-07-1, Dictyostatin 1

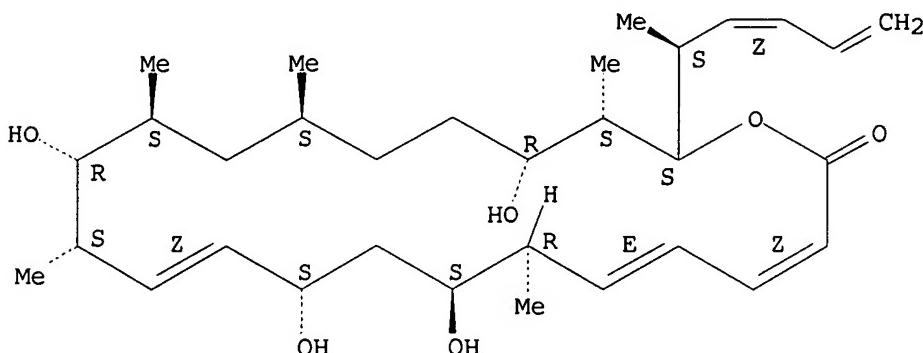
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (dictyostatin isolation and structural characterization and cytotoxic activity from marine sponge)

RN 156312-07-1 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Double bond geometry as described by E or Z.



L11 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:478705 CAPLUS

DOCUMENT NUMBER: 121:78705

TITLE: Isolation and structure of the cancer cell growth inhibitor dictyostatin 1

AUTHOR(S): Pettit, George R.; Cichacz, Zbigniew A.; Gao, Feng; Boyd, Michael R.; Schmidt, Jean M.

CORPORATE SOURCE: Cancer Res. Inst., Arizona State Univ., Tempe, AZ, 85287-1604, USA

SOURCE: Journal of the Chemical Society, Chemical Communications (1994), (9), 1111-12
CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

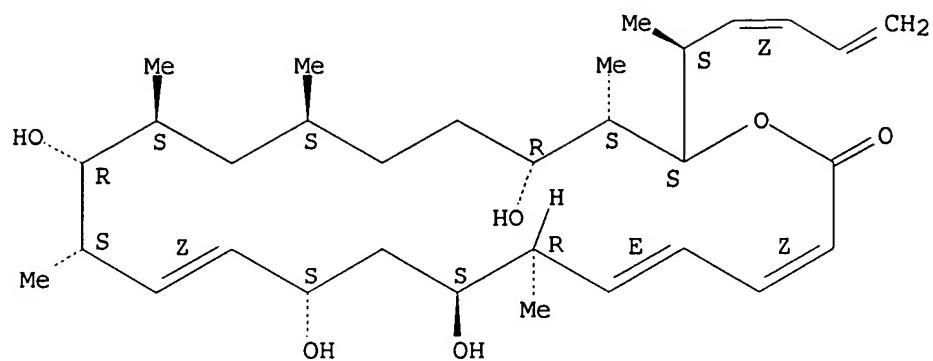
IT 156312-07-1, Dictyostatin 1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of marine sponge, isolation and structure of)

RN 156312-07-1 CAPLUS

CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

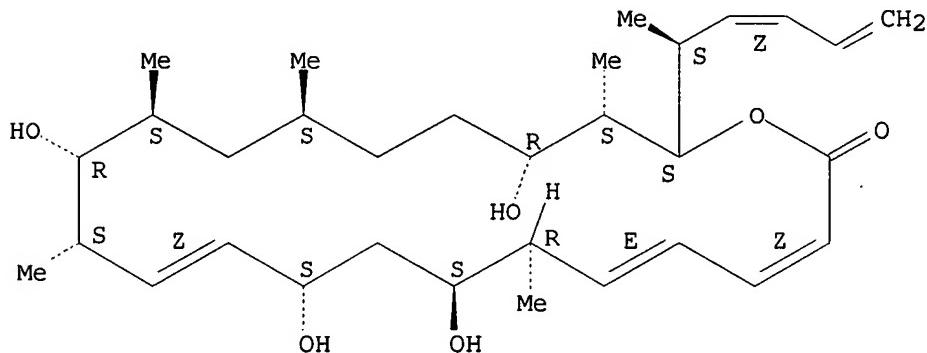
Absolute stereochemistry. Rotation (-).

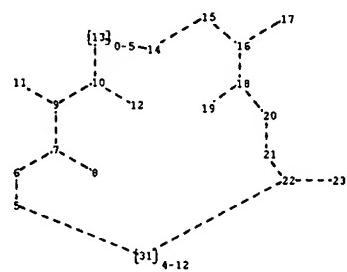
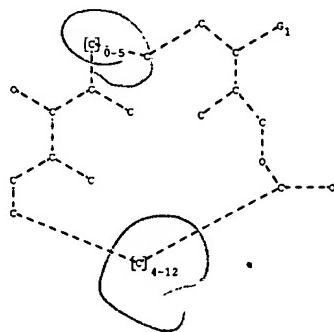
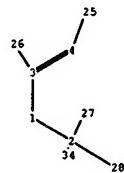
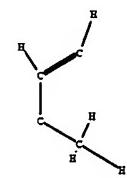
Double bond geometry as described by E or Z.



L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:461765 CAPLUS
 DOCUMENT NUMBER: 139:358179
 TITLE: Tubulin polymerizing activity of dictyostatin-1, a polyketide of marine sponge origin
 AUTHOR(S): Isbrucker, Richard A.; Cummins, Jennifer; Pomponi, Shirley A.; Longley, Ross E.; Wright, Amy E.
 CORPORATE SOURCE: Division of Biomedical Marine Research, Harbor Branch Oceanographic Institution, Inc., Fort Pierce, FL, 34946, USA
 SOURCE: Biochemical Pharmacology (2003), 66(1), 75-82
 CODEN: BCPCA6; ISSN: 0006-2952
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 156312-07-1, Dictyostatin-1
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tubulin polymerizing activity of dictyostatin-1)
 RN 156312-07-1 CAPLUS
 CN Oxacyclodocosa-3,5,11-trien-2-one, 8,10,14,20-tetrahydroxy-7,13,15,17,21-pentamethyl-22-[(1S,2Z)-1-methyl-2,4-pentadienyl]-, (3Z,5E,7R,8S,10S,11Z,13S,14R,15S,17S,20R,21S,22S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as described by E or Z.





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chain nodes :
 1 2 3 4 8 11 12 17 19 23 25 26 27 28 34
ring nodes :
 5 6 7 9 10 13 14 15 16 18 20 21 22 31
chain bonds :
 1-3 1-2 2-27 2-28 2-34 3-4 3-26 4-25 7-8 9-11 10-12 16-17 18-19
 22-23
ring bonds :
 5-6 5-31 6-7 7-9 9-10 10-13 13-14 14-15 15-16 16-18 18-20 20-21
 21-22 22-31
exact/norm bonds :
 2-34 5-6 5-31 6-7 7-8 7-9 9-10 9-11 10-12 10-13 13-14 14-15
 15-16 16-17 16-18 18-19 18-20 20-21 21-22 22-23 22-31
exact bonds :
 1-3 1-2 2-27 2-28 3-4 3-26 4-25

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G1:H,O

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Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
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 23:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 31:Atom 34:CLASS

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